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We hereby acknowledge receipt of your request for the processing of an international application according to the Patent Cooperation Treaty as follows:

Submission number	8924	
PCT application number	PCT/EP03/50767	
Date of receipt	30 October 2003	
Receiving Office	European Patent Office, The Hague	
Your reference	CR00570EP	
Applicant	MOTOROLA INC	
Number of applicants	4	
Country		
Title	ORTHOGONAL FREQUENCY DIVISION MULTIPLEX CHANNEL ESTIMATION TRACKING AND EQUALISATION	
Documents submitted	Fees.PDF application-body.xml fee-sheet.xml pct101.GML request.xml	Pct101.PDF draw62.pdf package-data.xml pct101u.GML spec62.pdf
Submitted by	CN=A. Chambers,O=Motorola,C=GB	
Method of submission	Online	
Date and time receipt generated	30 October 2003, 15:46:41	
Digest	3C:1F:15:0C:78:16:BD:4A:57:83:FA:32:BB:42:F7:15:3C:5 6:90:9E	

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31 OCT 2003
New 30 Oct 2003
NIV 30 AP 2004
NAG 30 JU 2004
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402 30 JU 2004

PCT REQUEST

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0	For receiving Office use only	PCT/EPO 3 / 50767
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	EUROPEAN PATENT OFFICE PCT INTERNATIONAL APPLICATION
0-4	Form - PCT/RO/101 PCT Request	epoline® online filing PCT plug-in (updated 30.10.2003)
0-4-1	Prepared using	
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	European Patent Office (EPO) (RO/EP)
0-7	Applicant's or agent's file reference	CR00570EP
I	Title of invention	ORTHOGONAL FREQUENCY DIVISION MULTIPLEX CHANNEL ESTIMATION TRACKING AND EQUALISATION
II	Applicant	applicant only all designated States except US MOTOROLA INC 1303 E.Algonquin Road Schaumburg, IL 60196 United States of America US US 01256 790392 01256 811319 derek.mccormack@motorola.com 000000
II-1	This person is:	
II-2	Applicant for	
II-4	Name	
II-5	Address:	
II-6	State of nationality	
II-7	State of residence	
II-8	Telephone No.	
II-9	Facsimile No.	
II-10	e-mail	
II-11	Applicant's registration No. with the Office	
III-1	Applicant and/or inventor	applicant and inventor US only MUCK, Markus 67-69 Rue de la Colonie F-75013 Paris France FR FR
III-1-1	This person is:	
III-1-2	Applicant for	
III-1-4	Name (LAST, First)	
III-1-5	Address:	
III-1-6	State of nationality	
III-1-7	State of residence	

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III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	DE COURVILLE, Marc
III-2-5	Address:	43 Rue Du Moulin Vert F-75014 Paris France
III-2-6	State of nationality	FR
III-2-7	State of residence	FR
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	DEBBAH, Merouane
III-3-5	Address:	72 Rue Camille Desmoulins F-94230 Cachan France
III-3-6	State of nationality	FR
III-3-7	State of residence	FR
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	LITCHFIELD, Laura
IV-1-2	Address:	Motorola European Intellectual Property Operations Midpoint, Alencon Link Basingstoke, Hampshire RG21 7PL United Kingdom
IV-1-3	Telephone No.	01256 790384
IV-1-4	Fax No.	01256 811319

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V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT</p> <p>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p>
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW <i>BW</i> ^A _{Role}</p>
V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier regional application Filing date	31 October 2002 (31.10.2002)
VI-1-1	Number	02292730.5
VI-1-2	Regional Office	EP
VI-1-3		

PCT REQUEST

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VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	-
IX-2	Description	17	spec62.pdf
IX-3	Claims	4	spec62.pdf
IX-4	Abstract	1	spec62.pdf
IX-2b	Pre-conversion archive	-	-
IX-5	Drawings	4	draw62.pdf
IX-7	TOTAL	31	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	-	Fees.PDF
IX-19	Figure of the drawings which should accompany the abstract	11	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Signed by	Subject: GB, Motorola, A. Chambers Issuer: DE, D-Trust GmbH, D-Trust for EPO 2.0	
X-1-2	Capacity	Authorised Representative (Agent 1)	

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10-1	Date of actual receipt of the purported international application	30 OCT 2003	(30.10.2003)
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CR00570EP

PCT REQUEST

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10-2	Drawings:	
10-2-1	Received	X
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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I	Title of invention	ORTHOGONAL FREQUENCY DIVISION MULTIPLEX CHANNEL ESTIMATION TRACKING AND EQUALISATION
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	MOTOROLA INC
II-5	Address:	1303 E.Algonquin Road Schaumburg, IL 60196 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	01256 790392
II-9	Facsimile No.	01256 811319
II-10	e-mail	derek.mccormack@motorola.com
II-11	Applicant's registration No. with the Office	000000
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	MUCK, Markus
III-1-5	Address:	67-69 Rue de la Colonie F-75013 Paris France
III-1-6	State of nationality	FR
III-1-7	State of residence	FR

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III-2	Applicant and/or inventor	
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III-2-7	State of residence	
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V-8	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier regional application	
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VI-1-2	Number	02292730.5
VI-1-3	Regional Office	EP

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VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
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IX-8	Fee calculation sheet	-	Fees.PDF
IX-19	Figure of the drawings which should accompany the abstract	11	
IX-20	Language of filing of the International application	English	

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10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	

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10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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Minzenfeld 30/10/03.

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